

DEMKO CERTIFICATE

Certificate No. D-07163-M1
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Date of Issue 2020-05-11

Certificate Holder TDK-LAMBDA CORP
NAGAOKA TECHNICAL CENTER R&D DIV
2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA 940-1195
JAPAN

Manufacturer TDK-LAMBDA CORP
NAGAOKA TECHNICAL CENTER R&D DIV
2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA 940-1195
JAPAN

Production site TDK-LAMBDA CORP
2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA-KEN 940-1195
JAPAN

See Page 2

Certified Product Model Switching Power supply
HWS1800T-12, HWS1800T-15, HWS1800T-24, HWS1800T-36,
HWS1800T-3, HWS1800T-48, See Page 2

Trademark

TDK-Lambda

Rated Voltage / Frequency

See Page 2

Rated Current / Power

See Page 2

Insulation Class

Class I

Degree of protection (IP)

IPX0

Tested acc. to

EN 62368-1:2014/A11:2017, EN 62368-1:2014

Test Report No.

E122103-A6038-CB-1 issued on 2020-05-07

Additional

for building-in.

The report was revised to include technical modifications.

Expire date

2029-03-17

Certification Manager
Jan-Erik Storgaard

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the D-Mark Requirements. As specified in the respective appendix below the Designated Certificate holder is entitled to use the D-Mark, or its alternative for cables, for the Certified Product manufactured at the production site(s) identified above, in accordance with the D-Mark Service Agreement, including without limitation the D-Mark Testing and Certification Services Service Terms. Only those Products bearing the D-Mark should be considered as being covered by UL's D-Mark Service. This Certificate shall remain valid through the expiration date, unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the expiration date.

Certification Body

UL International Demko A/S, Borupvang 5A, DK-2750
Ballerup, Denmark, Tel. +45 44 85 65 65,
info.dk@ul.com
www.UL.com



Appendix DEMKO CERTIFICATE

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Model Details:

HWS1800T-12,HWS1800T-15,HWS1800T-24,HWS1800T-36,HWS1800T-3,HWS1800T-48,HWS1800T-5,HWS1800T-60,HWS1800T-6,HWS1800T-7 May be followed by suffix /CO, /HD or /SB.

Production Sites:

TDK-LAMBDA MALAYSIA SDN BHD
PLO33 KAWASAN PERINDUSTRIAN SENAI 81400 SENAI JOHOR
MALAYSIA

TDK-LAMBDA MALAYSIA SDN BHD
LOT 2 & 3, BATU 9 3/4 KAWASAN PERINDUSTRIAN BANDAR BARU JAYA GADING 26070 KUANTAN PAHANG
MALAYSIA

TDK-LAMBDA (CHINA) ELECTRONICS CO LTD
NO.95,ZHUJIANG RD, XINWU DISTRICT WUXI JIANGSU 214028
CHINA

ZHANGJIAGANG HUA YANG ELECTRONICS CO LTD
NO.15 TONGXIN RD, ZHAOFENG ECONOMIC DEVELOPMENT ZONE, LEYU TOWN ZHANGJIAGANG JIANGSU
215622
CHINA

ALPS LOGISTICS FACILITIES CO LTD
593-1 NISHIOHASHI TSUKUBA-SHI IBARAKI-KEN 305-0831
JAPAN

SENDAN ELECTRONICS MFG CO LTD
1010 HABUSHIN NANTO-SHI TOYAMA-KEN 939-1756
JAPAN

Ratings:

Input:

3 Phase, 200-240 VAC, 50/60 Hz

4.5 A for model HWS1800T-3

6.0 A for models HWS1800T-5, HWS1800T-6, HWS1800T-7, HWS1800T-12, HWS1800T-15

7.0 A for models HWS1800T-24, HWS1800T-36, HWS1800T-48, HWS1800T-60

Output: Refer to General Product Information in test report.

Additional Information:

This certificate replaces the certificate No. D-07163-A1, issued on 2020-04-09 due to technical modifications:

- Addition of alternate Varistor (SA1), Nippon Chemi-con Corporation, Type TND14SV471K.
- Addition of alternate Varistor (SA1), TDK Electronics GmbH & Co OG, Type SIOVSNF14K300E2#K1 (# is blank, S2, S3 or S5).
- Revision of Technical data of Y-Capacitors (C17, C18, C19), Type KX.

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- Revision of Technical data of Y-Capacitors (C23, C24, C25), Type KX.
- Addition of alternate Relay (RL1), TYCO Electronics Austria GmbH, Type T9GV1L14-12.
- Addition of alternate Thermal Cutoff/Resistor Assemblies (TFR1, TFR2), Uchihashi Estec Co., Ltd., Type A5MC.
- Revision of Technical data of PRI-Ground Capacitor (C16), Type KX.
- Revision of Technical data of Primary-Ground Capacitor (C14), Type KX.
- Revision of Technical data of Primary-Ground Capacitor (C209), Type KX.

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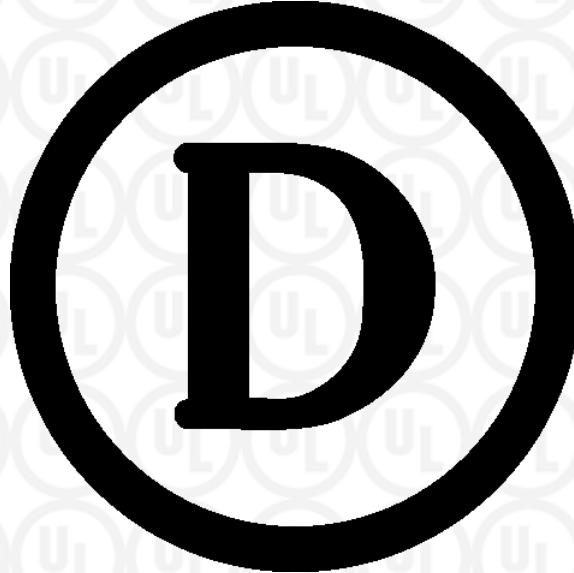


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Certification Mark D-Mark

The D-Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible.



The size of the Mark may be reduced or enlarged on the condition that it remains readable and that the proportions of width and height are kept. The use of dark text for the D-Mark on light backgrounds and light text on dark backgrounds is permitted.

When putting the product on the EU market, the manufacturer's name, trademark or mark of origin must be affixed in a clearly visible location and position on the product, on the package and in the user manual. It can be affixed by label, be directly imprinted, or cast or molded into the product.

Alternate certification Mark for cables

As an alternative to the D-Mark specified above the alternate D-Mark, displayed below, can appear on certified cables only. Minimum size is not specified, as long as the mark is legible.

◁DEMKO▷

The alternate D-Mark may be cast, stamped or moulded into the cable and continue throughout the length of the cable as specified in the applicable cable standard.

All content shall be in accordance with the details provided on this D-Mark Certificate.

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